

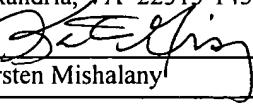


IPW

1744  
1744/4

**PATENT**

I hereby certify that on June 17, 2004, which is the date I am signing this certificate, I am depositing this correspondence the United States Postal Service, first class mail, in an envelope addressed to the Commissioner for Patents, Mail Stop Amendment – No Fee, P.O. Box 1450, Alexandria, VA 22313-1450.

  
Kiersten Mishalany

Applicant: Kazutoshi KAIZUKA  
Serial No.: 10/039,843  
Filed: November 6, 2001  
Title: Ionic Toothbrush  
Examiner: Mark SPISICH  
Group Art Unit: 1744  
Attorney Docket No.: 45144.00035

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Mail Box Amendment - No Fee  
Commissioner for Patents  
P. O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

**TRANSMITTAL**

Sir:

- Transmitted herewith is an Amendment in Response to Notice of Non-Compliant Amendment in the above-identified application;
- Information Disclosure Statement, including forms PCT/SB08/A and PCT/SB08/B
- Check in the amount of \$180.00, the fee for the IDS;
- A Return Postcard.
- Please charge my Deposit Account No. 07-1853 the amount of \$ \_\_\_\_\_. A duplicate copy of this sheet is enclosed.
- The Commissioner is hereby authorized to charge payment of the following fees associated with this communication or credit any overpayment to Deposit Account No. 07-1853.
- Any additional filing fees required under 37 C.F.R. 1.16.

Any patent application processing fees under 37 C.F.R. 1.17.

Respectfully submitted,

  
Sung I. Oh, Reg. No. 45,583  
Attorney for Applicant

**Squire, Sanders & Dempsey, LLP**  
810 South Figueroa, 14<sup>th</sup> Floor  
Los Angeles, CA 90017  
Telephone: (213) 689-5176 \* Facsimile: (213) 623-4581



**PATENT**

I hereby certify that on June 17, 2004, which is the date I am signing this certificate, I am depositing this correspondence the United States Postal Service, first class mail, in an envelope addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

  
Kiersten Mishalany

Applicant: **Kazutoshi KAIZUKA**  
Serial No.: 10/039,843  
Filed: November 6, 2001  
Title: Ionic Toothbrush  
Examiner: Mark SPISICH  
Group Art Unit: 1744  
Attorney Docket No.: 45144.00035

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Commissioner for Patents  
P. O. Box 1450  
Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT**

Sir:

In accordance with 37 C.F.R. § 1.56, the references listed on the attached Form PTO/SB/08A and PTO/SB/08B are being brought to the attention of the Examiner for consideration in connection with the examination of the above-identified patent application. The filing of this Information Disclosure Statement shall not be construed as a representation that a search has been made (37 C.F.R. § 1.97(g)), as an admission that the information cited is, or is considered to be, material to patentability, or that no other material information exists. The filing of this Information Disclosure Statement shall not be construed as an admission against interest in any manner. A copy of the cited documents are enclosed.

It is respectfully requested that the Examiner indicate consideration of the cited reference by returning a copy of the attached form PCT/SB/08A and PCT/SB/08B with initials or other appropriate marks, and that the references be made of record as cited references in the application.

06/23/2004 EAREGAY1 00000092 10039843

01 FC:1806

180.00 0P

**The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 07-1853 during the pendency of prosecution of this application. Should such additional fees be associated with an extension of time, applicant respectfully requests that this paper be considered a petition therefor. A duplicate of this paper is enclosed for the Deposit Account, should it be needed.**

Respectfully submitted,



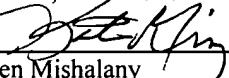
Sung I. Oh, Reg. No. 45,583  
Attorney for Applicants

**Squire, Sanders & Dempsey, LLP**  
810 South Figueroa, 14<sup>th</sup> Floor  
Los Angeles, CA 90017  
Telephone: (213) 689-5176  
Facsimile: (213) 623-4581



**PATENT**

I hereby certify that on June 17, 2004, which is the date I am signing this certificate, I am depositing this correspondence the United States Postal Service, first class mail, in an envelope addressed to the Commissioner for Patents, Mail Stop Amendment – No Fee, P.O. Box 1450, Alexandria, VA 22313-1450.

  
Kiersten Mishalany

Applicant: **Kazutoshi KAIZUKA**  
Serial No.: 10/039,843  
Filed: November 6, 2001  
Title: Ionic Toothbrush  
Examiner: Mark SPISICH  
Group Art Unit: 1744  
Attorney Docket No.: 45144.00035

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Mail Box Amendment - No Fee  
Commissioner for Patents  
P. O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

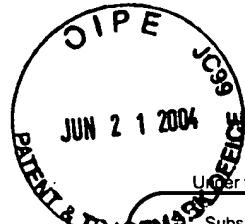
**AMENDMENT IN RESPONSE TO NOTICE OF NON-COMPLIANT AMENDMENT**

Sir:

In response to the Notice of Non-Compliant Amendment dated June 4, 2004, and having a shortened one-month response period, Applicant submits the following Amendment with corrected claim status identifiers.

**Amendments to the Claims** are reflected in the Listing of Claims which begins on page 2 of this paper.

**Remarks/Arguments** begin on page 5 of this paper.



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet

1

of 14

## Complete if Known

Application Number	
Filing Date	
First Named Inventor	
Art Unit	
Examiner Name	

Attorney Docket Number 45144

## U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
		US- D253,973	1/15/1980	Rosse	
		US- D309,354	7/17/1990	Rizzuto et al.	
		US- D411,333	6/22/1999	Smal	
		US- D424,742	5/9/2000	Hirata	
		US- 236,522	1/11/1881	Wilson	
		US- 278,944	6/5/1883	Hause	
		US- 294,309	2/26/1884	Campbell	
		US- 1,455,696	5/15/1923	Wright	
		US- 2,155,282	4/18/1939	Schoenling	
		US- 3,228,845	1/11/1966	Najjar	
		US- 3,613,143	10/19/1971	Muhler et al.	
		US- 3,618,154	11/9/1971	Muhler et al.	
		US- 3,703,766	11/28/1972	Tibbals	
		US- 4,035,865	7/19/1977	McRae et al.	
		US- 4,143,126	3/6/1979	Gaffar	
		US- 4,151,850	5/1/1979	Nathe et al.	
		US- 4,242,567	12/30/1980	Carter	
		US- 4,477,716	10/16/1984	Thaler et al.	
		US- 4,500,939	2/19/1985	Gueret	

## FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
		DE 19711676 A1	9/24/1998	Kim		
		DE 3120576 A1	1/5/1983	Segner		
		DE 19803175 A1	7/29/1999	Technomed Gesellschaft		
		EP 0 077600 A2	4/27/1983	Takimae		
		EP 1 086634 A1	3/28/2001	Create Co., Ltd		
		EP 0 0160320 A2	11/6/1985	E.I. Du Pont		

Examiner Signature		Date Considered
--------------------	--	-----------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

JUN 21 2004

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 12

of 14

Complete if Known

Application Number	
Filing Date	
First Named Inventor	
Art Unit	
Examiner Name	

Attorney Docket Number 45144

## U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
		US- 4,549,560	10/29/1985	Andis	
		US- 4,567,904	2/4/1986	Pitcher et al.	
		US- 4,610,925	9/9/1986	Bond	
		US- 4,739,151	4/19/1988	Smal	
		US- 4,740,669	4/26/1988	Takimae	
		US- 4,886,972	12/12/1989	Nakai et al.	
		US- 4,917,078	4/17/1990	Zaborowski	
		US- 5,056,227	10/15/1991	Kramer	
		US- 5,124,143	6/23/1992	Muhlemann et al.	
		US- 5,224,397	7/6/1993	Yoo	
		US- 5,266,304	11/30/1993	Baffelli et al.	
		US- 5,357,988	10/25/1994	Nakamura	
		US- 5,531,675	7/2/1996	Yoo	
		US- 5,787,525	8/4/1998	Sugihara et al.	
		US- 5,799,671	9/1/1998	Takimae	
		US- 5,848,599	12/15/1998	Todd	
		US- 5,891,473	4/6/1999	Stanier	
		US- 5,934,293	8/10/1999	Kaizuka	
		US- 5,935,483	8/10/1999	Kong	

## FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
		GB 1210385	10/28/1970	Muntz		
		GB 2301772 A	12/18/1996	Tokyo Biox Corp		
		EP 0927544 B1	7/7/1999	Altshuler, Grigory, Borisovich		
		JP 03241025	10/28/1991	J PII U:KK		
		JP 03250088	11/7/1991	Toshio		
		JP 956472	3/4/1997			

Examiner Signature		Date Considered
--------------------	--	-----------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



JUN 21 2004

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031  
H.S. Form 10-17 (Rev. 1-26-02) U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449/PTO

## **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

**(Use as many sheets as necessary)**

## Shee

3

of 4

**Complete if Known**

Application Number	
Filing Date	
First Named Inventor	
Art Unit	
Examiner Name	
Attorney Docket Number	45144

## U. S. PATENT DOCUMENTS

## FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	Text
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
		JP 09121996	5/13/1997	Beam Kogoyo KK		
		JP 11056425	3/2/1999	Yoshida Kogyo:KK		
		JP 2000-128750	5/9/2000	Seniru Laboratories Co.		
		JP 2001288679	10/19/2001	Toray Ind Inc.		
		JP 2002-313855	10/25/2002			
		JP 63150011	6/22/1988	Daiyu Shoji KK		

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

## **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

*(Use as many sheets as necessary)*

Sheet 4 of 4

**Complete if Known**

Application Number	
Filing Date	
First Named Inventor	
Art Unit	
Examiner Name	
Attorney Docket Number	45144

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear
		Country Code <sup>3</sup> "Number <sup>4</sup> "Kind Code <sup>5</sup> (if known)	MM-DD-YYYY		T <sup>6</sup>
		JP 63238808	10/4/1988	Maeda Nobuhide	
		RU 2108299	4/10/1998	Georgievich	
		WO 02/058449 A2	8/1/2002	Hydro Enterprises	
		WO 02/058449 A3	8/1/2002	Hydro Enterprises	
		KR 0117366	7/18/1996	Kaisuka	

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

<sup>1</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>2</sup>Applicant's unique citation designation number (optional). <sup>3</sup>See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>4</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>5</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>6</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>7</sup>Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: **Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

*If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.*



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet

1

of

1

Complete if Known	
Application Number	
Filing Date	
First Named Inventor	
Art Unit	
Examiner Name	
Attorney Docket Number	45144-

### NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		SAKAMOTO, et al., Effect of a Toothbrush with Ion-coated Nylon Filaments on Gingival Tissue in Dogs and Dental Plaque Accumulation in a Man, 2002, pp. 221-228, J. Dent. Hlth. 52; Okayama Univ. School of Medicine, Japan	
		WATANABE, et al., A Clinical Study to Evaluate the Effectiveness of a Multi-mineral Nylon Abrasive Filament (NAF) Toothbrush; pp. 1-12, Okayama University School of Medicine, Japan	

Examiner Signature	Date Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.